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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/693,301	10/24/2003	Gary K. Schwartz	702-A-US	1477
57545	7590 04/04/2006		EXAMINER	
LAW OFFICES OF ALBERT WAI-KIT CHAN, LLC 141-07 20TH AVENUE, SUITE 604			MARTIN, PAUL C	
WORLD PLAZA		ART UNIT	PAPER NUMBER	
WHITESTONE, NY 11357			1655	

DATE MAILED: 04/04/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)
	10/693,301	SCHWARTZ, GARY K.
Office Action Summary	Examiner	Art Unit
	Paul C. Martin	1655
The MAILING DATE of this communication a Period for Reply	ppears on the cover sheet with the c	orrespondence address
A SHORTENED STATUTORY PERIOD FOR REP WHICHEVER IS LONGER, FROM THE MAILING - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory perions failure to reply within the set or extended period for reply will, by state that the period for reply will, by state that the main three months after the main earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNICATION 1.136(a). In no event, however, may a reply be tin of will apply and will expire SIX (6) MONTHS from ute, cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).
Status		
1) Responsive to communication(s) filed on <u>06</u> 2a) This action is FINAL . 2b) This action is FINAL . 2b This action is in condition for allow	nis action is non-final.	osecution as to the merits is
closed in accordance with the practice under	r <i>Ex parte Quayle</i> , 1935 C.D. 11, 45	53 O.G. 213.
Disposition of Claims		
4) ☐ Claim(s) 31-38,41 and 42 is/are pending in the day Of the above claim(s) is/are withdrest is/are allowed. 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 31-38,41 and 42 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and	rawn from consideration.	
Application Papers		
9) The specification is objected to by the Examination The drawing(s) filed on is/are: a) and a Applicant may not request that any objection to the Replacement drawing sheet(s) including the correction. The oath or declaration is objected to by the second seco	ccepted or b) objected to by the line drawing(s) be held in abeyance. Sec ection is required if the drawing(s) is objection	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).
Priority under 35 U.S.C. § 119		
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority docume 2. Certified copies of the priority docume 3. Copies of the certified copies of the priority docume application from the International Bure * See the attached detailed Office action for a limit	ents have been received. ents have been received in Application in the contract of the contra	ion No ed in this National Stage
Attachment(s) 1)	4) Interview Summary	
 Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/0 Paper No(s)/Mail Date <u>02/06/06</u>. 	Paper No(s)/Mail Do 5) Notice of Informal F 6) Other:	ate Patent Application (PTO-152)

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DETAILED ACTION

Claims 31-38, 41 and 42 are pending in this application.

The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office Action.

All objections and rejections not repeated in the instant Action have been withdrawn due to Applicant's response to the previous Action.

This rejection is maintained for reasons of record set forth in the paper mailed 11/01/05, repeated below:

Slightly altered to take into consideration Applicant's amendment to the claims filed 02/06/06.

Claim Rejections - 35 USC § 112

Claim 34 is rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter, which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention.

The MPEP states that for a generic claim the genus can be adequately described if the disclosure presents a sufficient number of representative species that encompass the genus. MPEP § 2163. If the genus has a substantial variance, the disclosure must describe a sufficient variety of species to reflect the variation within that genus. MPEP § 2163. Although the MPEP does not define what constitute a sufficient number of representative species, the courts have indicated what do not constitute a representative number of species to adequately describe a broad generic.

In re Gostelli, the courts determined that the disclosure of two chemical compounds within a subgenus did not describe the subgenus. In re Gostelli, F.2d at 1012, USPQ2d at 1618.

As stated *supra*, the MPEP states that the written description for a genus can be achieved by a representative number of species within a broad generic. It is unquestionable, that Claims 34 is a broad generic, with respect to all possible protein kinase-c inhibitors. The possible variations as disclosed in the specification are limitless, and examples reflecting the variety of possible species in the genus are not provided.

Response to Arguments

Applicant's arguments filed 02/06/06 have been fully considered but they are not persuasive. Applicant's arguments are most because the Exhibits A and B were not included with the response.

Claim Rejections - 35 USC § 102

Claims 31-34 are rejected under 35 U.S.C. 102(b) as being anticipated by Hongfen et al. (2001) as evidenced by Xu et al. (1994) and Das et al. (1995). *

Hong-fen et al. teaches the treatment of solid tumors comprising administering to rats an effective amount of *Coptis chinensis* extract (Pg. 1947, Abstract and Pg. 1948-49, Paragraphs 2.2-2.5) which further comprises a protein kinase-c inhibitor.

Compounds found in ACNO such as *Curcuma zedoaria* and *Salvia miltiorrhiza* are known protein kinase-c inhibitors. (Xu *et al.* (abstract only) and Das *et al.* (Column 2, Lines 34-37)

*These references are cited merely to relay inherent properties of *Curcuma* zedoaria and Salvia miltiorrhiza and are not used as a basis for rejection per se.

Response to Arguments

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Applicant claims that Hong-fen does not teach a method for treating cancer in a subject comprising administering to the subject an effective amount of *coptis chinesis* extract because the reference teaches administration of a mixture of herbs, a component of which is *coptis chinesis*, and that the reference does not enable uses of the extract of *coptis chinesis* for cancer treatment.

The Applicant's rejection is not found persuasive for the following reasons:

Applicants use of the language "comprising administering to the subject an effective amount of acqueous *coptis chinesis* extract", according to the MPEP;

"The transitional term "comprising", which is synonymous with "including," "containing," or "characterized by," is inclusive or open-ended and does not exclude additional, unrecited elements or method steps. See, e.g., > Mars Inc. v. H.J. Heinz Co., 377 F.3d 1369, 1376, 71 USPQ2d 1837, 1843 (Fed. Cir. 2004)"

The reference teaches the administration of an effective amount of aqueous extract, of which *coptis chinesis* is a constituitive component to treat the spread of cancer in rats (Pg. 1949, Column 1, Lines 8-42 and Column 2, Lines 1-13 and Pg. 1951, Fig. 2).

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Claim Rejections - 35 USC § 103

Claims 31-38, 41 and 42 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hong-Fen *et al.* (2001) in view of Xinxian, 6,290,995 and Alloatti *et al.* (1998).

Hong-fen *et al.* teaches a method for treating cancer in a subject by administering an effective amount of an extract containing *coptis chinesis*, and other therapeutic agents, which are known protein kinase-c inhibitors as discussed *supra*.

Hong-fen *et al.* does not teach using a microtubule destabilizing therapeutic agent that is a taxol or "taxol-like". Nor does the reference teach any sequence of administration of the *coptis chinesis* and therapeutic agent.

Xinxian teaches that taxol is an anti-cancer drug that has the characteristic of promoting the assembly of microtubules. Xinxian notes that taxol has the associated problem of being poorly water soluble. Xinxian further teaches the use of the cancer treating extracts from two plants, one of which is high in berberine, an active component found in *coptis chinesis*. (Column 1, Lines 26-36 and Table 1)

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Aloatti *et al.* teaches the use of taxol and taxol-analogs as a known anti-cancer treatment that acts to inhibit microtubule disassembly, active against a wide range of solid tumors, though with some serious clinical side effects. (Pg. 561, Column 1, Lines 1-14).

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It would have been obvious to one of ordinary skill in the art at the time of the instant invention to include a microtubule "destabilizing" agent in a sequential regimen with the extract containing *coptis chinesis* and a protein kinase-c inhibitor and would have had motivation to do so because sequential treatments allow the researcher to assay efficacy, toxicity, possible side effects, or benefits of each compound separately. Further, the compounds act through different mechanisms and pathways and may work under different time frames.

It is also noted that since taxols are not readily water soluble, a second preparation would likely be needed since administration in tandem with the *coptis* extract would not be suitable.

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Response to Arguments

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The Applicant argues that because the references teach the use of more than

one herb in the treatment of cancer that they cannot teach or make obvious the claimed

invention of using a single herb extract to treat cancer.

The Applicant's arguments are not found persuasive for the following reasons, as

discussed in the rejection under 35 USC § 102 (b) above the language of the claim is

interpreted such that the teachings of Hong-fen combined with the teachings of the

other references teach and make obvious the claimed invention wherein an herbal

mixture of which coptis chinesis is a constituent component and is used to treat cancer

in a subject.

Conclusion

No Claims are allowed.

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time

policy as set forth in 37 CFR 1.136(a).

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A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Paul C. Martin whose telephone number is 571-272-3348. The examiner can normally be reached on M-F 8am-5pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Terry McKelvey can be reached on 571-272-0775. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Paul Martin Examiner Art Unit 1655

03/03/06

PATRICIA LEITH PRIMARY EXAMINER